

Technical Specifications

Full HD IR Dome IP Camera

FOR EXTERNAL APPLICATION

- Full HD 1080p 30fps
- H.264 and MJPEG compression
- True Day/Night and WDR
- 4x optical zoom lens
- Remote zoom and focus
- Built-in IR illuminator with 30m (98ft) viewing distance
- Embedded VCA Technology Video Analytics
- microSD/SDHC memory card slot
- Power over Ethernet (IEEE 802.3af)



CAMERA	
Model	IPN3512HD-6311R Outdoor, Motorized Focus & Zoom lens
Image Sensor	SONY EXMOR 1/2.9" 1080p CMOS
Effective Pixels	1920 x 1080
Scanning System	Progressive scanning
AGC Control	Auto
Auto IRIS (DC)	Supported
Minimum Illumination	Color: 0.5Lux / B/W : 0Lux (IR LED On)
Lens	2.8(w) – 12.0mm(t), F1.4(w) – F2.6(t), Optical 4x
Angle of View	Horizontal: Approx. 100°(Wide) to 35°(Tele) Vertical: Approx. 54°(Wide) to 20°(Tele)
Shutter Time	Automatic: 1/30 ~ 1/10,000 Manual: 1/2 ~ 1/5,000
Day & Night	True Day & Night (Removable IR-cut filter)
Wide Dynamic Range	Digital WDR

IR ILLUMINATOR	
IR LED	IR LED X 28 (850nm)
IR Working Distance	Max. 30m (98ft)
SMART IR	Supported

VIDEO	
Video Compression	H.264 Baseline, Main, High profile(MPEG-4 Part 10/ AVC), MJPEG(Motion JPEG)
Video Streaming	Dual Stream, Configurable streams in H.264, MJPEG H.264: Controllable frame rate, bandwidth(VBR/CBR) MJPEG: Controllable frame rate, JPEG quality
Resolutions	16:9 mode 1920 x 1080, 1280 x 720, 1120 x 630, 960 x 540, 800 x 450, 640 x 360, 480 x 270, 320 x 180
	4:3 mode SXGA(1280x960), XGA(1024x768), SVGA(800x600), PAL(720x576), NTSC(720x480), VGA(640x480), QVGA(320x240)
Frame Rate	H.264: Max 30fps in all resolutions MJPEG: Max 30fps in all resolutions

Image Settings	Configurable brightness, contrast, saturation, sharpness
Image Orientation	Flip / Mirror / Corridor Mode(-90°, +90°)
Noise Filter	Supported (0 ~ 3)
Defogging	Supported
Smart Bitrate Control	Supported (It works in VBR mode)
Exposure Adjustment	+1.0, +0.6, +0.3, 0, -0.3, -0.6, -1.0 EV
White Balance	ATW1 / ATW2 / Push / Manual
Back Light Compensation	On(possible to designate zone) / Off
Flicker Control	Normal, 50Hz, 60Hz
DSS (Sens-up)	2X ~ 16X
Video Stabilization	Supported
Burnt-in Text	Time stamp and text caption overlay
Privacy Mask	4 configurable regions

AUDIO	
Audio Streaming	-
Audio Compression	-
Audio input / output	-

NETWORK	
Ethernet Standard	10 / 100 Base-T
IP	IPv4, IPv6
Protocol	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, FTP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SNMPv1/v2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1, SRTP, RTMP
Security	HTTPS(SSL), IP Filtering, Multi-level access with password protection
Users	Live viewing for up to 10 clients

*Class4 or higher SD cards are recommended for HD recordings.
 **The internal heater will operate to boot the device, which approximately takes 1-3 minutes.

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INTEGRATION	
Application Programming Interface	Software Development Kit(SDK) available
ONVIF Compliance	Profile S, Profile G
Event Sources	Sensor(DI); Alarm(DO); Video Motion Detection; Face Detection; Tamper Detection; Video Content Analytics(VCA); Network Loss/Detect; Network Setting Change; Time(Recurrence/Schedule); Storage Error
Event Actions	File upload: E-mail, FTP Notification: E-mail, FTP, HTTP, TCP Trigger-Alarm(DO) Recording Event Log Saving
Event Metadata Streaming (RTSP/RTP)	Video Motion Detection(MD); Video Content Analytics(VCA)

GENERAL	
Material	Aluminum, Anti-vandal bubble (PC); Ivory
External I/O Terminals	1x Alarm In, 1x Alarm Out
Language on webpage	Korean, English, Chinese
Power Source / Consumption	DC 12V, PoE / 10W@ DC 12V (Heater On, IR-LED On)
Operating Temperature	Humidity up to 85% RH (non-condensing) [DC12V / PoE] -40°C ~ 50°C (-40°F ~ 122°F); Built-in heater
Lowest Temperature for device's start-up**	[DC12V / PoE] 0°C ~ 50°C (32°F ~ 122°F)
Approvals	FCC, CE, KC, IP66
IK Rating	IK10
Weight	1.2kg (2.7lb)
Dimensions (W x H)	Ø155mm x 129mm (Ø6.1" x 5.1") Bubble: Ø100mm (Ø3.9")

EDGE STORAGE	
Storage	1x microSD/microSDHC memory card slot (SD/SDHC up to 32GB, card not included)*
Continuous Recording	Instant recording; Search & Download
Event Recording	Search of Event Logs; Playback; Download

VIDEO ANALYTICS	
Analytics Engine	VCA Technology's advanced tracking algorithm with rich library of detection behaviors
Detection Zones and Rules	40 zones (Multi-segment Polygons and Lines) in total 60 rules in total
Tamper Detection	Supported
Auto Tracking	-
VCA Preset	-

VIDEO ANALYTICS (Optional Features)	
Detection Behavior	Enter, Exit, Appear, Disappear, Stop, Direction, Dwell filter; Tailgating; Color Filter
Logical Rules	Extends standard rules to allow various combinations of the inputs
3D Behavior	Perspective Corrected Size and Speed Filters
Object Classification	Configured Max./Min. object sizes and Max./Min. speeds
People Tracking	Tracks individuals separately among overlapped multiple people
Counting Line	High accuracy people and vehicle counting
Counting	20 counters in total
Counter Report	Generates counter reports based on the counter database
Heatmap Report	Shows relative crowd density of the 24 hour period (criterion: midnight)
Meta Data	Plain XML Format

Dimensions

(Unit: mm)

